166						
167	DC Power Installation-rec					
168	power - preferred DC					
169	low central office					
170	high central office					
171	pot power 40 amp	$122.68	PER ARRGMT	1	$122.68	
172	pot power 100 amp					
173	partitioned space-floor I					
174	partitioned space-floor II					
175	partitioned space-floor III					
176	TOTAL				$122.68	
177						
178	DC Power Installation-nrc					
179	cable installation 48 volt					
180	cage construction/cable install					
181	cable installation 48 volt					
182	power cabling 0-30ft					
183	power cabling 31-60ft					
184	power cabling 61-100ft					
185	power cabling 101-140ft					
186	power cabling 141+ft					
187	power per 40 amp increment					
188	low central office					
189	high central office					
190	pot power 40 amp	$8,139.00	PER ARRGMT	1		$8,139.00
191	pot 100 amp					
192	central office buildout					$0.00
193	ability-connect 7 ft bay					$0.00
194	TOTAL					$8,139.00
195						
196	DC Power Generation-rec				$0 00	
197	Washington-48 volt (low)					
198	Arizona-48 volt (high)					
199	power - preferred DC					
200	low central office					
201	high central office					
202	pot power 40 amp	$429.39	PER ARRGMT	1	$429.39	
203	pot power 100 amp					
204	interconnection floor space					
205	DC USG I					
206	DC USG II					
207	DC USG III					
208	TOTAL				$429.39	
209						
210	DC Power Generation-nrc					
211	TOTAL					$0.00
212						
213	DS1 Cross-Conn. Provision'g-rec	$7.22	PER DS1	100	$722.00	
214	TOTAL				$722.00	
215						
216	DS1 Cross-Conn. Provision'g-nrc	$125.00	PER DS1	100		$12,500.00
217	ds-1 ECIT					
218	TOTAL					$12,500.00
219						
220	DS3 Cross-Conn. Provision'g-rec					
221	TOTAL				$0.00	

222					
223	DS3 Cross-Conn. Provision'g-nrc				
224	ds-3 ECIT				
225	TOTAL				$0.00
226					
227	DS1 Cross-Conn. Cable/Cable Supp-rec				
228	ds-1 EICT				
229	`				
230	Oct - cable portion				
231	connection service-coax cable				
232	connection service-cable rack				
233	floor space			$0.00	
234	riser space			$0.00	
235	ds-1 electric cross-conn			$0.00	
236	ds-1 termination panel			$0.00	
237	interconnection arrangement	$17.65 PER ARRGMT	2	$35.30	
238	transmission arrangement				
239	TOTAL			$35.30	
240					
241	DS1 Cross-Conn. Cable/Cable Supp-nrc				
242	interconnection arrangement	$1,258.00 PER ARRGMT	2		$2,516.00
243	transmission arrangement				
244	TOTAL				$2,516.00
245					
246	DS3 Cross-Conn. Cable/Cable Supp-rec				
247	ds-3 ECIT				
248	EIS channel termination ds3				
249	Oct - cable portion				
250	connection service-coax cable				
251	connection service-cable rack				
252	floor space			$0 00	
253	riser space			$0 00	
254	ds-3 electric cross-conn				
255	ds-3 termination panel				
256	interconnection arrangement				
257	transmission arrangement				
258	TOTAL			$0.00	
259					
260	DS3 Cross-Conn. Cable/Cable Supp-nrc				
261	interconnection arrangement				
262	transmission arrangement				
263	TOTAL				$0.00
264					
265	DS1 Cross-Conn. Equipment-rec				
266	ds-1 ECIT				
267	connection service-repeaters				
268	floor space			$0.00	
269	ds-1 cross connect			$0.00	
270	ds-1 termination			$0.00	
271	TOTAL			$0.00	
272					
273	DS1 Cross-Conn. Equipment-nrc				
274	TOTAL				$0.00
275					
276	DS3 Cross-Conn. Equipment-rec				
277	ds-3 ECIT				

	floor space				$0.00	
	ds-3 cross connect					
	connection service-repeaters					
	ds-3 termination panel					
TOTAL					$0.00	
DS3 Cross-Conn. Equipment-nrc						
TOTAL						$0.00
Security Installation-rec						
	low central office					
	high central office					
TOTAL					$0.00	
Security Installation-nrc						$0.00
	partitioned space-group I					
	partitioned space-group II					
	partitioned space-group III					
	bldg & constr-group I					
	bldg & constr-group II					
	bldg & constr-group III					
	low central office					
	high central office					
	tac - small					
	tac - medium	$7,565.00	PER INTERCONNECT	1		$7,565.00
	tac - large					
TOTAL						$7,565.00
Security Active-rec						
TOTAL					$0.00	
Security Active-nrc						$0 00
	access card-new					
	access card-replacement					
	security service normal hours					
security service out of normal hours						
	security escort first 1/2 hour					
	security escort add'l 1/2 hour					
						$0.00
TOTAL					$1,775.21	$79,640.44
AMORTIZED TOTAL per MONTH						$1,741.52
PRICEOUT PER DS1					$35.17	
PRICE-OUT of LATEST REVISIONS UNDER INVESTIGATION						
NRCs	Unit	Rate under inv.	Rate*Unit	TRP function	Trp cross-ck	
Tac	1	$27,051.00	$27,051.00	27,70,302	$27,051.00	
Cage	1	$5,060.00	$5,060.00	105	$5,060.00	
House Electric	1	$2,207.00	$2,207.00	106	$2,207.00	
POT Frame	1	$2,743.00	$2,743.00	164	$2,743.00	

334	DS1 Interconnection Arrangement	2	$10,065.00	$20,130.00	163,242	$20,130.00
335	40 amp POT Power Arrangement	1	$8,139.00	$8,139.00	190	$8,139.00
336	Engineering Design Charge	1	$1,563.00	$1,563.00	14	$1,563.00
337	Cable Pull	8	$30.93	$247.44	31	$247.44
338	DS1 Interconnection Cross Connect	100	$125.00	$12,500.00	216	$12,500.00
339				$0.00		$0.00
340				$0.00		$0.00
341	TOTAL NRC			$79,640.44		$79,640.44
342	AMORTIZED TOTAL NRC			$1,741.52		$1,741.52
343						
344	CO Floor Space	1	$157.00	$157.00	134	$157.00
345	POT Frame	1	$41.34	$41.34	155	$41.34
346	DS1 Interconnection Arrangement	2	$139.40	$278.80	156,237	$278.80
347	40 amp POT Power Arrangement	1	$122.68	$122.68	171	$122.68
348	Conduit	75	$0.32	$24.00	43	$24.00
349	40 amp DC Transmission Power	1	$429.40	$429.40	202	$429.39
350	DS1 Interconnection Cross Connect	100	$7.22	$722.00	213	$722.00
351	TOTAL RECURRING			$1,775.22		$1,775.21
352	TOTAL CHARGES			$3,516.74		$3,516.73
353	TOTAL MONTHLY CHARGES PER DS1			$35.17		$35.17

354

355 ASSUMPTIONS for priceout: (Guidelines)
356 1. List each assumption utilized in the development of your priceout, above.
357 (Note that the rate elements listed in the above priceout chart are generic;
358 each LEC should use its own structure in developing the above priceout.)
359
360 TRP Cross-check: (Guidelines)
361 1. In populating the TRP function chart above, fill in the rate, unit of measurement,
362 and unit for each function or rate element including the function that most
363 closely matches your rate structure.
364
365 2. Multiply rate * unit to get the appropriate recurring or nonrecurring charges for
366 the DS1 related functions or elements only. This will result in the per DS1.
367 rate in Row 326
368
369 3. Identify, combine and align the rates/charges for each function that corresponds to
370 the appropriate rate element in your priceout chart above. The "rate * unit" column
371 in your priceout should match the "trp cross-ck column. Any discrepancy should
372 be explained. (In the "TRP function" column of the priceout chart above, place the
373 row number corresponding to that function/element; widen the column, if necessary)
374
375 4. Numbers 1 and 2 above will facilitate your demonstration of our fourth
376 directive in our April data request. Thanks for your cooperation.

LECs DIRECT CASE TRP FUNCTION RATES
AND PRICEOUT ANALYSIS

Row No.	SWBT - CAP PROVIDED OPTIONS					
1						
2	FUNCTIONS				Recurring	
3		Rate	UOM	Units	Charges	NRCs
4	Entrance Facility Installation-rec					
5	conduit fixed/low					
6	conduit fixed/high					
7	conduit					
8	TOTAL				$0.00	
9						
10	Entrance Facility Installation-nrc					
11	inspector (normal business hours)					
12	inspector (out of normal business hours)					
13	fiber cable splicing					
14	design eng	$1,563.00	PER REQUEST	1		$1,563.00
15	fiber placement conduit					
16	fiber placement riser					
17	core drill					
18	low central office					
19	high central office					
20	Vault splicing-Initial					$0.00
21	Vault splicing-Subseq.					$0.00
22	Splice testing-Initial					$0.00
23	Splice testing-Subseq.					$0.00
24	Cable pull-M to V initial					$0.00
25	Cable pull-M to V add'l					$0.00
26	tac - small					
27	tac - medium	$4,353.00	PER INTERCONNECT	1		$4,353 00
28	tac - large					
29	cable pull & splice -first 1/2					
30	cable pull & splice -add'l 1/2					
31	cable pull	$30.93	PER 1/2 HR.	8		$247.44
32	TOTAL					$6,163.44
33						
34	Entrance Facility Space-rec					
35	conduit/innerduct					
36	riser				$0.00	
37	riser group ll					
38	riser group lll					
39	low central office					
40	high central office					
41	cable vault space					
42	space/linear ft					
43	conduit space	$0.32	PER FT	75	$24.00	
44	conduit space -fixed/low					
45	conduit space-fixed/high					
46	interconnection floor space					
47	TOTAL				$24.00	
48						
49	Entrance Facility Space-nrc					
50	entrance enclosure manhole					
51	entrance enclosure handhole					
52	conduit/innerduct					
53	riser					

54	Cable pull-V to N initial				$0.00
55	Cable pull-V to N add'l				$0.00
56	TOTAL				$0.00
57					
58	Common Construction-rec				
59	low central office				
60	high central office				
61	TOTAL			$0.00	
62					
63	Common Construction-nrc				$0.00
64	cage enclosure w/out redundant HVAC				
65	hard wall enclosure w/o redundant HVAC				
66	cage enclosure with redundant HVAC				
67	low central office				
68	high central office				
69	tac - small				
70	tac - medium	$15,133.00 PER INTERCONNECT	1		$15,133.00
71	tac - large				
72	TOTAL				$15,133.00
73					
74	Construction Provision'g-rec				
75	TOTAL			$0.00	
76					
77	Construction Provision'g-nrc				$0.00
78	humidification				
79	quotation preparation fee				
80	cage enclosure with redundant HVAC				
81	cage enclosure w/out redundant HVAC				
82	hard wall enclosure w/o redundant HVAC				
83	central office floor space				
84	space construction charge				
85	application fee				$0.00
86	space prep fee				
87	TOTAL				$0.00
88					
89	Interconnector-Specific-rec				
90	chamber renonv02				
91	chamber renonv13				
92	chamber crcynv01				
93	chamber sprknv11				
94	central office-new ironwork				
95	central office-some existing ironwork				
96	TOTAL			$0.00	
97					
98	Interconnector-Specific-nrc				
99	cage enclosure with redundant HVAC				
100	cage enclosure w/o redundant HVAC				
101	hard wall enclosure w/o redundant HVAC				
102	humidification				
103	central office-new ironwork				
104	central office-some existing ironwork				
105	wire gage	$5,060.00 PER CAGE	1		$5,060.00
106	house electric	$2,207.00 PER CAGE	1		$2,207.00
107	space consruction charge				
108	Central office buildout				$0.00
109	transmission node				$0.00

110	TOTAL				$7,267.00
111					
112	Floor Space-rec			$0.00	
113	humidification				
114	maintenance				
115	base rent area 1				
116	base rent area 2				
117	base rent area 3				
118	Washigton-48 volt (low)				
119	Arizona-48 volt (high)				
120	interconnection chamber renonv02				
121	interconnection chamber renonv13				
122	interconnection chamber crcynv01				
123	interconnection chamber sprknv11				
124	partitioned space-floor 1				
125	partitioned space-floor 11				
126	partitioned space-floor 111				
127	low central office				
128	high central office				
129	net band				
130	nyt band 1				
131	nyt band 2				
132	nyt band 3				
133	nyt band 4				
134	interconnection floor space	$157.00 PER 100 SQ. FT.	1	$157.00	
135	TOTAL			$157.00	
136					
137	Floor Space-nrc				
138	TOTAL				$0.00
139					
140	Termination Equipment-rec				
141	ds1 EICT				
142	ds3 EICT				
143	cage enclosure redundant HVAC				
144	interconnection chamber renonv02				
145	interconnection chamber renonv13				
146	interconnection chamber crcynv01				
147	interconnection chamber sprknv11				
148	ds-1 cross connection				
149	ds-3 cross connection				
150	floor space			$0.00	
151	ds-1 oct				
152	ds-3 oct				
153	ds-1 term panel			$0.00	
154	ds-3 term panel			$0.00	
155	pot frame			$0.00	
156	ds-1 interconnection arrangement			$0.00	
157	ds-3 interconnection arrangement				
158	TOTAL			$0.00	
159					
160	Termination Equipment-nrc				
161	cage construction				
162	ds-1 interconnection arragement				
163	ds-1 interconnection arrg partitioned				$0.00
164	ds-3 interconnection arrg partitioned				$0.00
165	TOTAL				$0.00

166						
167	DC Power Installation-rec					
168	power - preferred DC					
169	low central office					
170	high central office					
171	pot power 40 amp	$122.68	PER ARRGMT	1	$122.68	
172	pot power 100 amp					
173	partitioned space-floor I					
174	partitioned space-floor II					
175	partitioned space-floor III					
176	TOTAL				$122.68	
177						
178	DC Power Installation-nrc					
179	cable installation 48 volt					
180	cage construction/cable install					
181	cable installation 48 volt					
182	power cabling 0-30ft					
183	power cabling 31-60ft					
184	power cabling 61-100ft					
185	power cabling 101-140ft					
186	power cabling 141+ft					
187	power per 40 amp increment					
188	low central office					
189	high central office					
190	pot power 40 amp	$8,139.00	PER ARRGMT	1		$8,139.00
191	pot 100 amp					
192	central office buildout					$0.00
193	ability-connect 7 ft bay					$0.00
194	TOTAL					$8,139.00
195						
196	DC Power Generation-rec				$0 00	
197	Washington-48 volt (low)					
198	Arizona-48 volt (high)					
199	power - preferred DC					
200	low central office					
201	high central office					
202	pot power 40 amp	$429.39	PER ARRGMT	1	$429.39	
203	pot power 100 amp					
204	interconnection floor space					
205	DC USG I					
206	DC USG II					
207	DC USG III					
208	TOTAL				$429.39	
209						
210	DC Power Generation-nrc					
211	TOTAL					$0.00
212						
213	DS1 Cross-Conn. Provision'g-rec	$7.22	PER DS1	100	$722.00	
214	TOTAL				$722.00	
215						
216	DS1 Cross-Conn. Provision'g-nrc	$125.00	PER DS1	100		$12,500.00
217	ds-1 ECIT					
218	TOTAL					$12,500.00
219						
220	DS3 Cross-Conn. Provision'g-rec					
221	TOTAL				$0.00	

222					
223	DS3 Cross-Conn. Provision'g-nrc				
224	ds-3 ECIT				
225	TOTAL				$0.00
226					
227	DS1 Cross-Conn. Cable/Cable Supp-rec				
228	ds-1 EICT				
229	'				
230	Oct - cable portion				
231	connection service-coax cable				
232	connection service-cable rack				
233	floor space			$0.00	
234	riser space			$0.00	
235	ds-1 electric cross-conn			$0.00	
236	ds-1 termination panel			$0.00	
237	interconnection arrangement			$0.00	
238	transmission arrangement	$17.65 PER ARRGMT	2	$35.30	
239	TOTAL			$35.30	
240					
241	DS1 Cross-Conn. Cable/Cable Supp-nrc				
242	interconnection arrangement				$0.00
243	transmission arrangement	$1,258.00 PER ARRGMT	2		$2,516.00
244	TOTAL				$2,516.00
245					
246	DS3 Cross-Conn. Cable/Cable Supp-rec				
247	ds-3 ECIT				
248	EIS channel termination ds3				
249	Oct - cable portion				
250	connection service-coax cable				
251	connection service-cable rack				
252	floor space			$0.00	
253	riser space			$0 00	
254	ds-3 electric cross-conn				
255	ds-3 termination panel				
256	interconnection arrangement				
257	transmission arrangement				
258	TOTAL			$0.00	
259					
260	DS3 Cross-Conn. Cable/Cable Supp-nrc				
261	interconnection arrangement				
262	transmission arrangement				
263	TOTAL				$0.00
264					
265	DS1 Cross-Conn. Equipment-rec				
266	ds-1 ECIT				
267	connection service-repeaters				
268	floor space			$0.00	
269	ds-1 cross connect			$0.00	
270	ds-1 termination			$0.00	
271	TOTAL			$0.00	
272					
273	DS1 Cross-Conn. Equipment-nrc				
274	TOTAL				$0.00
275					
276	DS3 Cross-Conn. Equipment-rec				
277	ds-3 ECIT				

278	floor space				$0.00	
279	ds-3 cross connect					
280	connection service-repeaters					
281	ds-3 termination panel					
282	TOTAL				$0.00	
283						
284	DS3 Cross-Conn. Equipment-nrc					
285	TOTAL					$0.00
286						
287	Security Installation-rec					
288	low central office					
289	high central office					
290	TOTAL				$0.00	
291						
292	Security Installation-nrc					$0.00
293	partitioned space-group 1					
294	partitioned space-group 11					
295	partitioned space-group 111					
296	bldg & constr-group 1					
297	bldg & constr-group 11					
298	bldg & constr-group 111					
299	low central office					
300	high central office					
301	tac - small					
302	tac - medium	$7,565.00	PER INTERCONNECT	1		$7,565.00
303	tac - large					
304	TOTAL					$7,565.00
305						
306	Security Active-rec					
307	TOTAL				$0.00	
308						
309	Security Active nrc					$0.00
310	access card-new					
311	access card-replacement					
312	security service normal hours					
313	security service out of normal hours					
314	security escort first 1/2 hour					
315	security escort add'l 1/2 hour					
316						
317						
318						
319						
320						
321						
322						$0.00
323						
324	TOTAL				$1,490.37	$59,283.44
325	AMORTIZED TOTAL per MONTH					$1,296.37
326	PRICEOUT PER DS1				$27.87	
327						
328	PRICE-OUT of LATEST REVISIONS UNDER INVESTIGATION					
329	NRCs	Unit	Rate under inv.	Rate*Unit	TRP function	Trp cross-ck
330	Tac	1	$27,051.00	$27,051.00	27,70,302	$27,051.00
331	Cage	1	$5,060.00	$5,060.00	105	$5,060.00
332	House Electric	1	$2,207.00	$2,207.00	106	$2,207.00
333	POT Frame	0	$2,743.00	$0.00	164	$0.00

334	DS1 Transmission Arrangement	2	$1,258.00	$2,516.00	243	$2,516.00
335	40 amp POT Power Arrangement	1	$8,139.00	$8,139.00	190	$8,139.00
336	Engineering Design Charge	1	$1,563.00	$1,563.00	14	$1,563.00
337	Cable Pull	8	$30.93	$247.44	31	$247.44
338	DS1 Interconnection Cross Connect	100	$125.00	$12,500.00	216	$12,500.00
339				$0.00		$0.00
340				$0.00		$0.00
341	TOTAL NRC			$59,283.44		$59,283.44
342	AMORTIZED TOTAL NRC			$1,296.37		$1,296.37
343						
344	CO Floor Space	1	$157.00	$157.00	134	$157.00
345	POT Frame	0	$41.34	$0.00	155	$0.00
346	DS1 Transmission Arrangement	2	$17.65	$35.30	238	$35.30
347	40 amp POT Power Arrangement	1	$122.68	$122.68	171	$122.68
348	Conduit	75	$0.32	$24.00	43	$24.00
349	40 amp DC Transmission Power	1	$429.40	$429.40	202	$429.39
350	DS1 Interconnection Cross Connect	100	$7.22	$722.00	213	$722.00
351	TOTAL RECURRING			$1,490.38		$1,490.37
352	TOTAL CHARGES			$2,786.75		$2,786.74
353	TOTAL MONTHLY CHARGES PER DS1			$27.87		$27.87

354

355 ASSUMPTIONS for priceout: (Guidelines)

356 1. List each assumption utilized in the development of your priceout, above.
357 (Note that the rate elements listed in the above priceout chart are generic;
358 each LEC should use its own structure in developing the above priceout.)

359

360 TRP Cross-check: (Guidelines)

361 1. In populating the TRP function chart above, fill in the rate, unit of measurement,
362 and unit for each function or rate element including the function that most
363 closely matches your rate structure.

364

365 2. Multiply rate * unit to get the appropriate recurring or nonrecurring charges for
366 the DS1 related functions or elements only. This will result in the per DS1.
367 rate in Row 326.

368

369 3. Identify, combine and align the rates/charges for each function that corresponds to
370 the appropriate rate element in your priceout chart above. The "rate * unit" column
371 in your priceout should match the "trp cross-ck column. Any discrepancy should
372 be explained. (In the "TRP function" column of the priceout chart above, place the
373 row number corresponding to that function/element; widen the column, if necessary)

374

375 4. Numbers 1 and 2 above will facilitate your demonstration of our fourth
376 directive in our April data request. Thanks for your cooperation.

Southwestern Bell Corporation

March 23, 1994

William A. Blase, Jr.
Director
Federal Regulatory

Mr. Chuck Needy
Tariff Division
Common Carrier Bureau
Federal Communications Commission
1919 M. Street, N.W., Room 518
Washington, D.C. 20554

Re: Data Request in Expanded Interconnection Tariff Filings

Dear Mr. Needy:

Pursuant to Mr. Gregory Vogt's letter dated March 11, 1994, SWBT submits the attached documentation.

In responding to your letter, SWBT notes that while it has submitted information at this level in the past, this information is now of use to SWBT's competitors in constructing strategies to compete with SWBT's business. SWBT respects the need of the Commission to view such data in carrying out its duties. Nevertheless, any additional detail that might be requested to be placed on the public record could cause competitive harm to SWBT. In the future, we also expect that procedures will be installed to protect the data like that being disclosed here, from the unrestricted view of other parties who may compete with SWBT.

If you have any questions, please feel free to contact me.

Sincerely,

William A. Blase Jr

Attachment

CC: Gregory Vogt

401 I Street, N.W.
Suite 1100
Washington, D.C. 20005

Phone 202 326-8850

MEGALINK III SERVICE
INCREMENTAL UNIT COST STUDY

METHODOLOGY

INTRODUCTION

MegaLink III Service provides full time dedicated communications channel for digital transmission at speeds of 64 kbps and 1.544 mbps (megabits per second). MegaLink III Service is appropriate for dedicated service between two or more customer specified locations within a LATA of Southwestern Bell Telephone Company.

Three major cost elements are examined in this Incremental Unit Cost study:

- Loop
- Service Area Function
- Interoffice Channel

The loop element represents the cost of facilities to provide a connection between the customer premises and the Telephone Company serving office. It includes cable, wire, electronics, conduit, supporting structures, etc

Service area function elements represent the transmission equipment required for the circuit to meet the technical parameters of a specific digital service. For these digital services, SAF includes various Telephone Company serving office plug-in units, manhole equipment and common equipment.

The interoffice channel element represents the cost to connect one or more customer serving offices with other serving office locations. The interoffice channel consists of a mileage sensitive element and a fixed rate element. The mileage sensitive element represents items such as cable, conduit and manholes The fixed element represents the serving office equipment required to terminate an interoffice channel. Items such as cross-connect panels and fiber distribution panels are included in this element.

LOOP

Feeder Facility

The DS1 loop facility consists of a fiber/copper based system that provides 1.544 mb/s (DS1) service from the serving central office to the customer premises.

The loop characteristics for DS1 services are determined from a State specific random sample of Special Access loops. The loop sample consisted of approximately 1000 samples and achieved at least a 90% confidence with a plus or minus 10% variance in average loop length.

Broad Gauge Unit costs are used to calculate the cable investments per foot. DS1 investments are based on a transmit and receive requirement. DS1 services are provided over a copper repeater system which requires an average of 2.04 copper pairs. Fiber based DS1 systems require four fibers. Both copper and fiber investments reflect the appropriate requirements. DS1 cable investments are further refined by calculating the final cable investment based on the DS1 (1.544mb/s) capacity of OC3 multiplexing equipment. The percentage of copper and fiber investments are based on the economic crossover point produced when copper and fiber system investments per kilofoot band are compared. All services shorter than the crossover point are assigned the economic cost equal to copper cable; all services longer than the crossover point are assumed to be provided over fiber or DLC systems.

The cable investment reflects aerial, buried and underground construction which includes manholes, conduit and innerduct. Appropriate annual and inflation cost factors are applied to the investment and divided by 12 to obtain a monthly cost.

Distribution Cable

The distribution cable is the copper cable from the serving area interface or fiber hub to the customer premises. Distribution cable characteristics are determined by using data collected from the Special Access loop sample. Broad Gauge Unit cable costs are used to develop investment and reflect buried and underground construction which includes manholes, conduit and innerduct. Appropriate annual and inflation cost factors are applied to the investment and divided by 12 to obtain a monthly cost.

Frame Stringer

The frame stringer provides a circuit path between the central office end of the loop facility and a central office Main Distribution Frame (MDF).

Current investment in the frame stringer is obtained from the Telephone Company's Network Organization. The investment is multiplied by cost factors to obtain operating expenses and capital costs.

Premise Termination

Premise termination provides a transmission path from the outside plant cable network to the customer premises. The path may consist of aerial or buried service wire or a building entrance cable facility. Items of plant include terminals, protector units, building entrance cable and associated hardware.

Material requirements and installation time for items are obtained from Southwestern Bell's Network Organization. Vendor prices of material are obtained from current procurement department information. The resulting investments are multiplied by annual and inflation cost factors, then divided by 12 to obtain a monthly cost.

SERVICE AREA FUNCTION

The Service Area Function (SAF) element represents the cost of equipment required to satisfy standard network transmission parameters for the type of channel being studied.

SAF design cases represent standard transmission equipment configurations, and are developed by the Network Circuit Provisioning Organization in three broad categories for each type of channel being studied:

- Service without interoffice facilities
- Service with interoffice facilities
- Service with optional feature(s)

Design cases are prepared to reflect the equipment necessary to provide service over various loop distances (kilofoot band). Investments for the equipment in each design case are identified and converted to a per channel value This value is adjusted for utilization.

The SAF program sums the unit investment of each equipment item within each kilofoot band. These investments are multiplied by the probability of that kilofoot band and are summed to determine the weighted investment by design case. Each case is weighted by its probability of occurrence. Total equipment investments are developed for service with and without an interoffice channel.

SAF equipment requires support from building and power plant. Factors are developed and applied to the SAF investments to determine the supporting investment values. Building factors are not applied to equipment located on customer premises.

Finally, investments by account code are multiplied by annual cost and levelized inflation factors to determine the annual cost of each investment category and summed by location (serving office and premises). The rate elements are supported by these costs.

The SAF cost for service without an interoffice channel is combined with the loop cost to determine the local distribution channel cost. The cost of the additional SAF required with an interoffice channel is added to the fixed interoffice channel cost to determine the total fixed I.O. channel mileage cost.

INTEROFFICE

The interoffice channel per mile and fixed elements are developed from a study of digital circuits reflecting interoffice channels which connect the serving offices of customer specified locations.

The interoffice per mile element represents the cost of interoffice fiber facilities required to transport the digital signal.

The interoffice fixed element consists of additional SAF equipment required with interoffice transmission, and the weighted cost of termination equipment required for the various interoffice fiber facility transmission types

Cost Per Mile

The Network Organization provides costs by fiber facility type which are converted to an investment per mile. The per mile investments for each facility type are multiplied by their probability of mileage in the billing band (if applicable), then adjusted by fill. The investments are then summed by investment category to determine the per mile investment for the interoffice channel. In turn, each investment category is multiplied by the appropriate annual cost and levelized inflation factors to determine the annual and monthly cost per mile for an interoffice channel for the rate planning period.

Fixed Element

Fixed cost elements represent the line haul equipment required to terminate an interoffice channel. Non-distance sensitive cost development utilizes the fiber facility mix data generated during the per mile cost process.

The Network Organization provides current investments for each terminating equipment configuration, which are converted to an investment per channel. These investments are multiplied by a facility mixes to establish a weighted investment for interoffice terminating equipment (by billing band if applicable). These weighted investments are adjusted for utilization and annual cost developed for the rate planning period through the application of annual cost and levelized inflation factors.

Costs of additional SAF equipment required for interoffice design cases are added to the above facility termination costs to produce the interoffice fixed element cost by digital service type.

DS3 SERVICE
SPECIAL ACCESS
INCREMENTAL UNIT COST STUDY

METHODOLOGY

INTRODUCTION

MegaLink Custom Service (DS3) includes Digital High Capacity Services providing transmission at speeds exceeding 1.544 mbps. MegaLink Custom Services are provided between two customer designated premises or between a customer designated premises and a Telephone Company Hub Central Office. This study identifies the costs for providing DS3 service, DS3 to DS1 multiplexing and Service to Service through Connect

The three major components of the cost studies are

- Fiber Loop
- Service Area Function
- Interoffice Channel

The loop is the connection between the customer's designated premises and the Telephone Company Hub Central Office It includes the glass fiber, supporting structures, manhole, conduit and interduct.

The Service Area Function (SAF) is the equipment required for the circuit to meet the technical parameters of the service. For DS3 service, SAF includes various plug-in units and common equipment located in the Telephone Company Hub Central Office and customer's designated premises.

The Interoffice Channel connects the various serving offices within a LATA. The interoffice channel consists of a mileage sensitive element and a fixed element. The mileage sensitive element represents items such as glass fiber, conduit, and manhole equipment. The fixed element represents the Central Office multiplexing equipment required to terminate an interoffice channel.

COST DEVELOPMENT

LOOP

The loop facility consists of a fiber based system that provides DS3 service from the serving central office to the customer premises. The loop characteristics are determined from a State specific random sample of Special Access loops, which includes feeder and distribution. The loop sample consists of approximately 1000 samples and achieved at least 90% confidence with plus or minus 10% variance in average loop length. Broad Gauge Unit costs are used to calculate the fiber cable investments per foot. Investments reflect the required four fibers for fiber based systems. Investments are further refined by calculating the final cable investment based on the DS3 capacity of OCN point to point designs. The cable investment reflects buried and underground construction which includes manholes, conduit and innerduct. Appropriate Annual and Inflation Cost factors are applied to the investment and divided by 12 to obtain a monthly cost.

SERVICE AREA FUNCTION

The Service Area Function (SAF) includes the equipment required to meet the transmission design parameters of the service being studies.

Standard equipment designs are developed by the Network Circuit Provisioning District for DS3 service. The designs include electrical (equipment provided at customer premises and Telephone Company C.O.) or Optical (equipment provided at Telephone Company C.O.). Since with fiber, equipment requirements are not affected by distance, these designs show the equipment requirements in a single kilofoot band. The SAF program summed the unit investment of each equipment item within the band and multiplied the total by the probability of that kilofoot band.

SAF equipment requires support from building and power plant. Building and Power factors are developed and applied to the SAF investments to determine the supporting investment values. Building and power factors are not applied to equipment located on customer premises.

Finally, investments by account code are multiplied by annual cost factors and levelized inflation to determine the annual cost of each investment category and summed by service type.

INTEROFFICE CHANNEL

Cost Per Mile

Current investments for building, transmission equipment and outside plant are identified for each facility type to develop mileage sensitive increments. The per mile investments for each facility type are multiplied by the probability of mileage for the facility type; the channel termination investments, by the probability of intermediate channel terminations for the facility type. The weighted investments are summed to determine the per mile investment for the interoffice channel. Each investment category is multiplied by the appropriate annual cost factor to determine the annual cost for the interoffice channel. Calculations for the incremental costs include levelized inflation to project costs through the planning period.

Fixed Cost

Current building and transmission equipment investments are identified for the equipment used to terminate the interoffice channel within the serving offices. These investments are weighted by the probability of each facility type terminating and are summed to determine the fixed investment per interoffice channel. Each investment category is multiplied by the appropriate annual cost factor to determine the annual cost for the interoffice channel terminal. Calculations for the incremental costs include levelized inflation to project costs through the planning period.

Southwestern Bell Corporation

April 6, 1994

William A. Blase, Jr.
Director
Federal Regulatory

Mr. Gregory J. Vogt
Chief, Tariff Division
Common Carrier Bureau
Federal Communications Commission
1919 M Street, N.W., Room 518
Washington, D.C. 20554

Re: Data Request in Expanded Interconnection Tariff Filings

Dear Mr. Vogt:

Pursuant to requests from Carol Canteen and Chuck Needy of your staff, SWBT submits the attached documentation.

This documentation includes:

1) Price-Out Charts using SWBT's originally filed 2-16-93 rates and SWBT's proposed rates, and

2) An updated Appendix C, "Overhead Analysis", using SWBT's current Expanded Interconnection rates and SWBT's proposed rates.

The documentation has been provided in both hardcopy and on a LOTUS 1-2-3 diskette. Rate changes initiated by SWBT are reflected in Transmittal numbers 2279, 2280 and 2285.

If you have questions or need additional information, please contact me.

WA Blase

cc: Carol Canteen
Chuck Needy

1401 I Street, N.W.
Suite 1100
Washington, D.C. 20005

Phone 202 326-8860

SOUTHWESTERN OVERHEAD ANALYSIS

RATE ELEMENTS	SWB DIRECT COST	CURRENT RATE	OVERHEAD	SWBT PROPOSED RATE	OVERHEAD FROM SWBT RATE
POINT OF TERMINATION FRAME	16.82	39.14	2.3270	39.14	2.3270
POINT OF TERMINATION FRAME - NRC	2,742.52	2,743.00	1.0002	2,743.00	1.0002
DS1 INTERCONNECTION ARRANGEMENT	61.78	131.98	2.1362	131.98	2.1362
DS1 INTERCONNECTION ARRANGEMENT - NRC	10,064.69	10,065.00	1.0000	10,065.00	1.0000
DS3 INTERCONNECTION ARRANGEMENT	240.65	805.00	3.3451	805.00	3.3451
DS3 INTERCONNECTION ARRANGEMENT- NRC	39,237.31	39,237.00	1.0000	39,237.00	1.0000
POINT OF TERMINATION POWER ARRGMT - 100 AMP	64.39	149.84	2.3271	149.84	2.3271
POINT OF TERMINATION POWER ARRGMT - 100 AMP - NRC	10,499.51	10,500.00	1.0000	10,500.00	1.0000
POINT OF TERMINATION POWER ARRGMT - 40 AMP	49.91	116.15	2.3271	116.15	2.3271
POINT OF TERMINATION POWER ARRGMT - 40 AMP - NRC	8,138.61	8,139.00	1.0000	8,139.00	1.0000
DS1 TRANSMISSION ARRANGEMENT	7.82	16.71	2.1360	16.71	2.1360
DS1 TRANSMISSION ARRANGEMENT - NRC	1,258.35	1,258.00	0.9997	1,258.00	0.9997
DS3 TRANSMISSION ARRANGEMENT	6.89	23.04	3.3449	23.04	3.3449
DS3 TRANSMISSION ARRANGEMENT - NRC	1,110.09	1,110.00	0.9999	1,110.00	0.9999
CONDUIT	0.13	0.15	1.1450	0.30	2.2901
CABLE PULL					
DC TRANSMISSION POWER - 100 AMP	1,087.35	743.53	0.6838	1,029.45	0.9467
DC TRANSMISSION POWER - 40 AMP	429.40	294.49	0.6858	406.52	0.9467
CAGE	5,059.63	5,060.00	1.0001	5,060.00	1.0001
HOUSE ELECTRIC	2,207.45	2,207.00	0.9998	2,207.00	0.9998
FLOOR SPACE PER 100 SQFT					
--AR	129.25	130.00	1.0058	130.00	1.0058
--KS	159.83	160.00	1.0010	160.00	1.0010
--MO	172.67	173.00	1.0019	173.00	1.0019
--OK	137.67	138.00	1.0024	138.00	1.0024
--TX	156.75	157.00	1.0016	157.00	1.0016
TENANT ACCOMMODATION	18,034.00	18,034.00	1.0000	18,034.00	1.0000
DS1 INTRCONNECTION CROSS-CONNECT	3.20	4.64	1.4509	6.84	2.1388
DS1 INTRCONNECTION CROSS-CONNECT - NRC	124.62	125.00	1.0030	125.00	1.0030
DS3 INTRCONNECTION CROSS-CONNECT	31.94	46.33	1.4507	106.83	3.3451
DS3 INTRCONNECTION CROSS-CONNECT - NRC	124.59	125.00	1.0033	125.00	1.0033
RECONFIGURATION - DS1	211.00	211.00	1.0000	211.00	1.0000
RECONFIGURATION - DS3	135.00	135.00	1.0000	135.00	1.0000
SECURITY ESCORT PER 1/2 HR					
ENGINEERING DESIGN	1,562.81	1,563.00	1.0001	1,563.00	1.0001
COMPOSITE OVERHEAD	103,266.63	103,641.00		104,101.80	1.0081

SWBT MODEL OFFICE - COST OF PROVISIONING 100 DS1'

	2-16-93 RATES UNDER INVESTIGATION	REQ PER 100 DS1'S	TOTAL REVS	RAF %	RAF'D RATE	TOTAL RAF'D REVS
1 NONRECURRING CHARGES						
CONSTRUCTION CHARGES	$88,814.24	1	$88,814.24	100.0000%	$88,814.24	$88,814.24
INTERCONNECTION CROSS CONNECT-NEW	$125.00	50	$6,250.00	100.0000%	$125.00	$6,250.00
RECONFIGURATION CHARGE						
FIRST	$211.00	1	$211.00	100.0000%	$211.00	$211.00
ADD'L	$177.00	49	$8,673.00	100.0000%	$177.00	$8,673.00
TOTAL NRC			$103,948.24			$103,948.24
EQUIV. MONTHLY PAYMENT OVER 5 YEARS @11.25%			$2,273.07			$2,273.07
2 RECURRING CHARGES						
CO FLOOR SPACE/100SQ FT	$157.00	1	$157.00	100.0000%	$157.00	$157.00
POWER REQUIREMENTS						
DC TRANS. POWER - 100 AMP	$1,087.35	1	$1,087.35	72.4376%	$787.65	$787.65
POT POWER ARRGMT - 100 AMP	$165.41	1	$165.41	100.0000%	$165.41	$165.41
DC TRANS. POWER - 40 AMP						
POT POWER ARRGMT - 40 AMP						
CONDUIT	$0.32	75	$24.00	49.4000%	$0.16	$12.00
POT FRAME	$329.55	1	$329.55	100.0000%	$329.55	$329.55
DS1 INTERCONNECTION ARRGMT	$139.40	2	$278.80	100.0000%	$139.40	$278.80
INTERCONNECTION CROSS CONNEC	$7.22	100	$722.00	67.8670%	$4.90	$490.00
TOTAL RECURRING			$2,764.11			$2,220.41
TOTAL MONTHLY PRICE			$5,037.18			$4,493.48
MONTHLY COST/DS1			$50.37			$44.93

ASSUMPTIONS:

1 USED 100 AMP DC POWER OPTIONS FOR 2-16-93 PRICE OUT AS 40 AMP OPTION NOT YET AVAILABLE
USED AVAILABLE 40 AMP DC POWER OPTIONS FOR 4-5-94 PRICE OUT

2 UTILIZED CHARGE FOR TEXAS MEDIUM SIZED WIRE CENTER FORECASTEDFOR TWO INTERCONNECTORS INCL
INCLUDED IN CONSTRUCGTION CHARGE

3 FOUR HOURS FOR CABLE PULL INLCUDED IN CONSTRUCTION CHARGE

4 SWBT PROVIDED POINT OF TERMINATION FRAME AND DS1 INTERCONNECTIONARRANGEMENT OPTIONS

5 CONSTRUCTION CHARGE INLCUDES: TAC, HOUSE ELECTRIC, POT POWER ARRANGEMENTS,
INTERCONNECITON ARRANGEMENT, EDC, CABLE PULL AND POT FRAME INSTALLATION.

SWBT MODEL OFFICE - COST OF PROVISIONING 100 DS1'S

	4-5-94 PROPOSED RATES UNDER INVESTIGATION	REQ PER 100 DS1'S	TOTAL REVS	RAF %	RAF'D RATE	TOTAL RAF'D REVS
1 NONRECURRING CHARGES						
CONSTRUCTION CHARGES	$67,001.24	1	$67,001.24	100.0000%	$67,001.24	$67,001.24
INTERCONNECTION CROSS CONNECT-NEW	$125.00	50	$6,250.00	100.0000%	$125.00	$6,250.00
RECONFIGURATION CHARGE						
FIRST	$211.00	1	$211.00	100.0000%	$211.00	$211.00
ADD'L	$177.00	49	$8,673.00	100.0000%	$177.00	$8,673.00
TOTAL NRC			$82,135.24			$82,135.24
EQUIV. MONTHLY PAYMENT OVER 5 YEARS @11.25%			$1,796.08			$1,796.08
2 RECURRING CHARGES						
CO FLOOR SPACE/100SQ FT	$157.00	1	$157.00	100.0000%	$157.00	$157.00
POWER REQUIREMENTS						
DC TRANS. POWER - 100 AMP						
POT POWER ARRGMT - 100 AMP						
DC TRANS. POWER - 40 AMP	$406.52	1	$406.52	72.4376%	$294.47	$294.47
POT POWER ARRGMT - 40 AMP	$116.15	1	$116.15	100.0000%	$116.15	$116.15
CONDUIT	$0.30	75	$22.50	49.4000%	$0.15	$11.25
POT FRAME	$39.14	1	$39.14	100.0000%	$39.14	$39.14
DS1 INTERCONNECTION ARRGMT	$131.98	2	$263.96	100.0000%	$131.98	$263.96
INTERCONNECTION CROSS CONNEC	$6.84	100	$684.00	67.8670%	$4.64	$464.00
TOTAL RECURRING			$1,689.27			$1,345.97
TOTAL MONTHLY PRICE			$3,485.35			$3,142.05
MONTHLY COST/DS1			$34.85			$31.42

ASSUMPTIONS:

1 USED 100 AMP DC POWER OPTIONS FOR 2-16-93 PRICE OUT AS 40 AMP OPTION NOT YET AVAILABLE
USED AVAILABLE 40 AMP DC POWER OPTIONS FOR 4-5-94 PRICE OUT

2 UTILIZED CHARGE FOR TEXAS MEDIUM SIZED WIRE CENTER FORECASTEDFOR TWO INTERCONNECTORS INCLUDED
INCLUDED IN CONSTRUCGTION CHARGE

3 FOUR HOURS FOR CABLE PULL INLCUDED IN CONSTRUCTION CHARGE

4 SWBT PROVIDED POINT OF TERMINATION FRAME AND DS1 INTERCONNECTIONARRANGEMENT OPTIONS

5 CONSTRUCTION CHARGE INLCUDES: TAC, HOUSE ELECTRIC, POT POWER ARRANGEMENTS,
INTERCONNECITON ARRANGEMENT, EDC, CABLE PULL AND POT FRAME INSTALLATION.

SOUTHWESTERN OVERHEAD ANALYSIS

RATE ELEMENTS	SWB DIRECT COST	CURRENT RATE	OVERHEAD	SWBT PROPOSED RATE	OVERHEAD FROM SWBT RATE
POINT OF TERMINATION FRAME	16.82	39.14	2.3270	39.14	2.3270
POINT OF TERMINATION FRAME - NRC	2,742.52	2,743.00	1.0002	2,743.00	1.0002
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DS1 INTERCONNECTION ARRANGEMENT - NRC	10,064.69	10,065.00	1.0000	10,065.00	1.0000
DS3 INTERCONNECTION ARRANGEMENT	240.65	805.00	3.3451	805.00	3.3451
DS3 INTERCONNECTION ARRANGEMENT- NRC	39,237.31	39,237.00	1.0000	39,237.00	1.0000
POINT OF TERMINATION POWER ARRGMT - 100 AMP	64.39	149.84	2.3271	149.84	2.3271
POINT OF TERMINATION POWER ARRGMT - 100 AMP - NRC	10,499.51	10,500.00	1.0000	10,500.00	1.0000
POINT OF TERMINATION POWER ARRGMT - 40 AMP	49.91	116.15	2.3271	116.15	2.3271
POINT OF TERMINATION POWER ARRGMT - 40 AMP - NRC	8,138.61	8,139.00	1.0000	8,139.00	1.0000
DS1 TRANSMISSION ARRANGEMENT	7.82	16.71	2.1360	16.71	2.1360
DS1 TRANSMISSION ARRANGEMENT - NRC	1,258.35	1,258.00	0.9997	1,258.00	0.9997
DS3 TRANSMISSION ARRANGEMENT	6.89	23.04	3.3449	23.04	3.3449
DS3 TRANSMISSION ARRANGEMENT - NRC	1,110.09	1,110.00	0.9999	1,110.00	0.9999
CONDUIT	0.13	0.15	1.1450	0.30	2.2901
CABLE PULL					
DC TRANSMISSION POWER - 100 AMP	1,087.35	743.53	0.6838	1,029.45	0.9467
DC TRANSMISSION POWER - 40 AMP	429.40	294.49	0.6858	406.52	0.9467
CAGE	5,059.63	5,060.00	1.0001	5,060.00	1.0001
HOUSE ELECTRIC	2,207.45	2,207.00	0.9998	2,207.00	0.9998
FLOOR SPACE PER 100 SQFT					
--AR	129.25	130.00	1.0058	130.00	1.0058
--KS	159.83	160.00	1.0010	160.00	1.0010
--MO	172.67	173.00	1.0019	173.00	1.0019
--OK	137.67	138.00	1.0024	138.00	1.0024
--TX	156.75	157.00	1.0016	157.00	1.0016
TENANT ACCOMMODATION	18,034.00	18,034.00	1.0000	18,034.00	1.0000
DS1 INTRCONNECTION CROSS-CONNECT	3.20	4.64	1.4509	6.84	2.1388
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RECONFIGURATION - DS1	211.00	211.00	1.0000	211.00	1.0000
RECONFIGURATION - DS3	135.00	135.00	1.0000	135.00	1.0000
SECURITY ESCORT PER 1/2 HR					
ENGINEERING DESIGN	1,562.81	1,563.00	1.0001	1,563.00	1.0001
COMPOSITE OVERHEAD	103,266.63	103,641.00		104,101.80	1.0081

SWBT MODEL OFFICE - COST OF PROVISIONING 100 DS1'

	2-16-93 RATES UNDER INVESTIGATION	REQ PER 100 DS1'S	TOTAL REVS	RAF %	RAF'D RATE	TOTAL RAF'D REVS
1 NONRECURRING CHARGES						
CONSTRUCTION CHARGES	$88,814.24	1	$88,814.24	100.0000%	$88,814.24	$88,814.24
INTERCONNECTION CROSS CONNECT-NEW	$125.00	50	$6,250.00	100.0000%	$125.00	$6,250.00
RECONFIGURATION CHARGE						
FIRST	$211.00	1	$211.00	100.0000%	$211.00	$211.00
ADD'L	$177.00	49	$8,673.00	100.0000%	$177.00	$8,673.00
TOTAL NRC			$103,948.24			$103,948.24
EQUIV. MONTHLY PAYMENT OVER 5 YEARS @11.25%			$2,273.07			$2,273.07
2 RECURRING CHARGES						
CO FLOOR SPACE/100SQ FT	$157.00	1	$157.00	100.0000%	$157.00	$157.00
POWER REQUIREMENTS						
DC TRANS. POWER - 100 AMP	$1,087.35	1	$1,087.35	72.4376%	$787.65	$787.65
POT POWER ARRGMT - 100 AMP	$165.41	1	$165.41	100.0000%	$165.41	$165.41
DC TRANS. POWER - 40 AMP						
POT POWER ARRGMT - 40 AMP						
CONDUIT	$0.32	75	$24.00	49.4000%	$0.16	$12.00
POT FRAME	$329.55	1	$329.55	100.0000%	$329.55	$329.55
DS1 INTERCONNECTION ARRGMT	$139.40	2	$278.80	100.0000%	$139.40	$278.80
INTERCONNECTION CROSS CONNEC	$7.22	100	$722.00	67.8670%	$4.90	$490.00
TOTAL RECURRING			$2,764.11			$2,220.41
TOTAL MONTHLY PRICE			$5,037.18			$4,493.48
MONTHLY COST/DS1			$50.37			$44.93

ASSUMPTIONS:

1 USED 100 AMP DC POWER OPTIONS FOR 2-16-93 PRICE OUT AS 40 AMP OPTION NOT YET AVAILABLE
USED AVAILABLE 40 AMP DC POWER OPTIONS FOR 4-5-94 PRICE OUT

2 UTILIZED CHARGE FOR TEXAS MEDIUM SIZED WIRE CENTER FORECASTEDFOR TWO INTERCONNECTORS INCL
INCLUDED IN CONSTRUCGTION CHARGE

3 FOUR HOURS FOR CABLE PULL INLCUDED IN CONSTRUCTION CHARGE

4 SWBT PROVIDED POINT OF TERMINATION FRAME AND DS1 INTERCONNECTIONARRANGEMENT OPTIONS

5 CONSTRUCTION CHARGE INLCUDES: TAC, HOUSE ELECTRIC, POT POWER ARRANGEMENTS,
INTERCONNECITON ARRANGEMENT, EDC, CABLE PULL AND POT FRAME INSTALLATION.